ENVIRONMENTAL CHEMISTS

Date of Report: 04/04/02 Date Received: 03/14/02

Project: Metro Self Monitor, PO# M67691

Date Extracted: 03/29/02 Date Analyzed: 04/01/02

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

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Sample ID	<u>Ch</u> :	romium	Copper	<u>Nickel</u>	<u>Zinc</u>
Laboratory ID					
Maria Narakiya					anyse oyer s
M67691		0.25	0.34	0.24	0.07
203105-01					
Method Blank	<	0.05	< 0.05	< 0.05	< 0.05
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ENVIRONMENTAL CHEMISTS

Date of Report: 04/04/02 Date Received: 03/14/02

Project: Metro Self Monitor, PO# M67691

QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 203216-01 (Duplicate)

ARTHUR BLANCS	그래프 전환 그렇다.			Relative	
	Reporting	Sample	Duplicate		Acceptance
Analyte	Units	Result	Result	Difference	Criteria
Chromium	mg/L (ppm)	0.31	0.32	3	0-20
Copper	mg/L (ppm)	0.41	0.43	5	0-20
Nickel	mg/L (ppm)	0.21	0.22	5 4 4	0-20
Zinc	mg/L (ppm)	<0.05	< 0.05	nm	0-20

Laboratory Code: 203216-01 (Matrix Spike)

	maderater, court.		Drain opinio,					
		Reporting	Spike	Sample	% Recov	ery % Recov	ery Acceptan	ce RPD
V.	Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
	Chromium	mg/L (ppm)	2	0.31	103	100	80-120	3
	Copper	mg/L (ppm)	2	0.41	100	97	80-120	3
	Nickel	mg/L (ppm)	4	0.21	98	98	80-120	0
	Zinc	mg/L (ppm)	2	< 0.05	106	105	80-120	1

Laboratory Code: Laboratory Control Sample

	Reporting	Spike	% Recovery	% Recover	y Acceptanc	e RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Chromium	mg/L (ppm)	2	108	111	80-120	3
Copper	mg/L (ppm)	2	106	110	80-120	4
Nickel	mg/L (ppm)	4	104	107	80-120	3
Zinc	mg/L (ppm)	2	108	113	80-120	5

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

April 4, 2002

DUPLICATE COPY

INVOICE # 02ACU0404-3

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M67691 - Results of testing requested by Gerry Thompson for material submitted on March 14, 2002.

FEDERAL TAX ID #(b) (6)

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City, State, ZIP SEAR Phone # 206-782-873	465	Cub	9813	REMAR	KS				-						□ Disp □ Retu	oose a urn sa	PLE DIS after 30 d amples with inst	ays
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Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	CZ/W/22/27						Notes
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Seattle, WA 98119-2029	Received	$> \sim$	50		5.0	96	Z	> > >	して	V		F	43	<u></u>	Fuc	:	l	7
Ph. (206) 285-8282	Relinquis						٠,											
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ENVIRONMENTAL CHEMISTS

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April 4, 2002

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on March 14, 2002 from your Metro Self Monitor, PO# M67691 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Charlene Morrow for Michael Erdahl Project Manager

Enclosures ACU0404R.DOC